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INTERNATIONAL SEARCH REPORT

Inten	nal Application No
PCT/GB 97/00577	

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	N. ENGL. J. MED., vol. 333, no. 18, November 1995, pages 1171-5, XP002040437 BOSMA P ET AL: "The genetic basis of reduced expression of bilirubin UDP glucuronyltransferase 1 in Gilbert's syndrome" see the whole document ---	1-11
Y	PHARMACOKINETICS, vol. 2, no. 3, 1992, pages 93-108, XP002040438 OWENS I ET AL: "The novel bilirubin/phenol UDP-glucuronosyltransferase UGT1 gene locus: implications for multiple familial hyperrubinemia phenotypes" see the whole document ---	1-11
Y	---	1-11
		-/-

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "Z" document member of the same patent family

2

Date of the actual completion of the international search

11 September 1997

Date of mailing of the international search report

01.10.97

Name and mailing address of the ISA

European Patent Office, P.O. 5811 Patentlaan 2
 NL - 2280 HV Rijswijk
 Td. (+ 31-70) 340-2040, Tx. 31 651 epo nl,
 Fax (+ 31-70) 340-3016

Authorized officer

Osborne, H

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PCT/GB 97/00577	

C(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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P,X	THE LANCET, vol. 347, 2 March 1996, pages 578-81, XP002040439 MONAGHAN G ET AL: "Genetic variation in bilirubin UDP-glucuronosyltransferase gene promoter and Gilbert's syndrome" cited in the application see the whole document ---	1-11
Y	WO 92 12987 A (US) 6 August 1992 see the whole document ---	1-11
X	GASTROENTEROLOGY, vol. 102, January 1992, pages 577-86, XP002040440 DE MORAIS S ET AL: "Decreased glucuronidation and increased bioactivation of acetaminophen in Gilbert's syndrome" cited in the application see abstract	1
Y	---	2-11
X	MOLECULAR PHARMACOLOGY, vol. 43, no. 4, April 1993, pages 649-54, XP002040441 EBNER, T ET AL: "Human bilirubin UDP-gluconosyltransferase catalyzes the glucuronidation of ethinylestradiol" cited in the application see page 652 - page 653 -----	1
Y	-----	2-11
2		

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 97/00577

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9212987 A	06-08-92	AU 1227892 A	27-08-92

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P17218/RMC	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
(International application No. PCT/GB 97/ 00577)	International filing date (day/month/year) 03/03/1997	(Earliest) Priority Date (day/month/year) 01/03/1996
Applicant THE UNIVERSITY COURT OF THE UNIVERSITY OF ...et al.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Certain claims were found unsearchable (see Box I).
2. Unity of invention is lacking (see Box II).
3. The international application contains disclosure of a nucleotide and/or amino acid sequence listing and the international search was carried out on the basis of the sequence listing
 - filed with the international application.
 - furnished by the applicant separately from the international application,
 - but not accompanied by a statement to the effect that it did not include matter going beyond the disclosure in the international application as filed.
 - Transcribed by this Authority
4. With regard to the title,
 - the text is approved as submitted by the applicant
 - the text has been established by this Authority to read as follows:
5. With regard to the abstract,
 - the text is approved as submitted by the applicant
 - the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this International Search Report, submit comments to this Authority.
6. The figure of the drawings to be published with the abstract is:
 - Figure No. _____ as suggested by the applicant
 - because the applicant failed to suggest a figure.
 - because this figure better characterizes the invention.

None of the figures.

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Y	PHARMACOKINETICS, vol. 2, no. 3, 1992, pages 93-108, XP002040438 OWENS I ET AL: "The novel bilirubin/phenol UDP-glucuronosyltransferase UGT1 gene locus: implications for multiple familial hyperrubinemia phenotypes" see the whole document ---	1-11
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Fax (+31-70) 340-3016

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Osborne, H

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Y	WO 92 12987 A (US) 6 August 1992 see the whole document ---	1-11
Y	not known related to hyperbilirubin. + Gilbert .	1-11
X	GASTROENTEROLOGY, vol. 102, January 1992, pages 577-86, XP002040440 DE MORAIS S ET AL: "Decreased glucuronidation and increased bioactivation of acetaminophen in drug administration Gilbert's syndrome" cited in the application see abstract ---	1
Y	suggests drug leucuronidation may be effective	2-11
X	MOLECULAR PHARMACOLOGY, vol. 43, no. 4, April 1993, pages 649-54, XP002040441 EBNER, T ET AL: "Human bilirubin UDP-glucuronosyltransferase catalyzes the glucoronidation of ethinylestradiol" cited in the application see page 652 - page 653 -----	1
Y	-----	2-11
2	① haven't defined population genetically ② enzyme different - not bilirubin can't use theirs as test. ethically not allowed to be done pharmaceutical may work.	

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PCT/GB 97/00577

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